

Amendments to the Claim:

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-16 (cancelled)

Claim 17 (currently amended): A device to detect a state of a component, the device comprising:
a receiver disposed on the component and having a light-sensitive surface;
a transmitter disposed on the component at a distance from the receiver and configured to emit a focused beam outside of the component to the receiver; and
an evaluation unit, wherein the transmitter and the receiver are disposed in such a way that a deformation of the component effects a corresponding position shift of the beam.

Claim 18 (previously presented): The device as recited in claim 17 wherein the state of the component include at least one of a deformation state, a loading state, and a movement of the component.

Claim 19 (previously presented): The device as recited in claim 17 wherein the receiver includes at least one of a PSD transducer and an image processing element.

Claim 20 (previously presented): The device as recited in claim 17 wherein the focused beam includes at least one of a focused light beam, a focused electromagnetic wave, a focused acoustic wave, and a focused particle beam.

Claim 21 (currently amended): The device as recited in claim 17 wherein the transmitter and the receiver are each disposed in a holder on the component ~~in such a way that a deformation of the component effects a corresponding position shift of the beam.~~

Claim 22 (previously presented): The device as recited in claim 17 further comprising a reflector within a path of the beam.

Claim 23 (previously presented): The device as recited in claim 22 wherein the reflector reflects the beam towards the receiver.

Claim 24 (previously presented): The device as recited in claim 22 further comprising a holder and wherein the reflector is connected to the component via the holder.

Claim 25 (previously presented): The device as recited in claim 17 wherein the light-sensitive surface of the receiver has a resolution of at least 1000 d.

Claim 26 (previously presented): The device as recited in claim 17 wherein the transmitter emits at least one laser beam.

Claim 27 (previously presented): The device as recited in claim 17 wherein the transmitter, the receiver and the reflector are disposed in a flexible housing.

Claim 28 (previously presented): The device as recited in claim 27 wherein the transmitter and the receiver are disposed on a first side of the housing and the reflector is disposed on an opposite second side of the housing.

Claim 29 (previously presented): The device as recited in claim 17 further comprising at least one semi-transparent layer disposed within a path of the beam from the transmitter to the receiver.

Claim 30 (previously presented): The device as recited in claim 17 wherein at least one of the transmitter and the receiver has a round shape.

Claim 31 (previously presented): The device as recited in claim 17 wherein at least one of the transmitter and the receiver has a rectangular shape.

Claim 32 (previously presented): The device as recited in claim 27 wherein the housing has one of a round and a rectangular shape

Claim 33 (previously presented): The device as recited in claim 27 wherein the housing is in the form of a drill bore in the component.

Claim 34 (previously presented): The device as recited in claim 17 wherein the receiver is associated with an evaluation logic circuit in order to determine the deformation of the component.

Claim 35 (previously presented): The device as recited in claim 22 wherein the transmitter is disposed in a first holder and the reflector is disposed at a distance from the transmitter in a second holder, and the transmitter, receiver, and reflector are disposed on the component in a shared housing.

Claim 36 (previously presented): A device to detect various states of a component, the device comprising:

- a clamping element having at least two contact parts and defining a first bore;
- a plate clamped to the component using the clamping element, the plate defining a second bore aligned with the first bore;
- a receiver having a light-sensitive surface disposed on the plate;
- a transmitter disposed on the plate at a distance from the receiver, the transmitter configured to emit a focused beam outside of the component to the receiver.

Claim 37 (previously presented): The device as recited in claim 17 wherein the focused beam is a punctiform beam.

Claim 38 (previously presented): The device as recited in claim 36 wherein the focused beam is a punctiform beam.

Claim 39 (new): The device as recited in claim 17, wherein the receiver and the transmitter are disposed on an interior of the component.